## In the Claims:

(currently amended) An electronic packaging structure comprising:
a chip carrier:

at least two semiconductor devices attached to said chip carrier, where at least one of said at least two semiconductor devices is a lower power density device and at least one of said at least two semiconductor devices is a higher power density device and said lower power density device has a reduced thickness than the thickness of said higher power density device;

a heat spreader having a substantially planar surface in thermal contact with said at least two semiconductor devices; and

a thermal adhesive layer in contact with said heat spreader and with said at least two semiconductor devices whereby a semiconductor device requiring a lower thermal resistance has a thinner thermal adhesive layer than a semiconductor device which can tolerate a higher thermal resistance.

- (original) The packaging structure of claim 1 wherein said chip carrier is a ceramic chip carrier.
- (original) The packaging structure of claim 1 wherein said chip carrier is an organic chip carrier.

- (original) The packaging structure of claim 1 wherein said semiconductor devices are selected from the group consisting of integrated circuit chips, capacitors, resistors and thermistors.
- (original) The packaging structure of claim 1 wherein said heat spreader is comprised of material selected from the group consisting of diamond, Si, SiC,
  Mo. ceramic and composites containing these materials.
- 6. (original) The packaging structure of claim 1 wherein said thermal adhesive layer is comprised of a material selected from the group consisting of Ag filled epoxy, filled thermoplastic, filled polymer, filled polymer adhesive, metal and solder.
- (withdrawn) The packaging structure of claim 1 wherein a different thermal adhesive layer is used for a semiconductor device which has a different thickness.
- 8. (withdrawn) The packaging structure of claim 1 wherein said at least two semiconductor devices comprise at least one high power density semiconductor device and at least one low power density device and a compliant thermal adhesive layer material is used on said lower power density semiconductor

device and a rigid thermal adhesive layer material is used on said high power density device.

- (original) The packaging structure of claim 1 wherein said heat spreader is the package lid.
- (previously presented) The packaging structure of claim 1 wherein said lower power density device is approximately 120 microns thinner than said higher power density device.
- 11. (currently amended) A method for cooling multiple semiconductor devices with different cooling requirements on a common chip carrier with a common lid or heat spreader comprising the steps of:

providing a chip carrier:

attaching at least two semiconductor devices to said chip carrier, where at least one of said at least two semiconductor devices is a lower power density device and at least one of said at least two semiconductor devices is a higher power density device and said lower power density device has a reduced thickness than the thickness of said higher power density device;

placing a heat spreader having a substantially planar surface in thermal contact with said at least two semiconductor devices; and

placing a thermal adhesive layer in contact with said heat spreader and with said at least two semiconductor devices whereby a semiconductor device

requiring a lower thermal resistance has a thinner thermal adhesive layer than a semiconductor device which can tolerate a higher thermal resistance.

- (canceled) The method of claim 1 wherein said chip carrier is a ceramic chip carrier.
- (canceled) The method of claim 1 wherein said chip carrier is an organic chip carrier.
- 14. (canceled) The method of claim 1 wherein said semiconductor devices are selected from the group consisting of integrated circuit chips, capacitors, resistors and thermistors.
- 15. (canceled) The method of claim 1 wherein said heat spreader is comprised of material selected from the group consisting of diamond, Si, SiC, Mo, ceramic, and composites containing these materials.
- 16. (canceled) The method of claim 1 wherein said thermal adhesive layer is comprised of a material selected from the group consisting of Ag filled epoxy, filled thermoplastic, filled polymer, filled polymer adhesive, metal and solder.
- (withdrawn) The method of claim 1 wherein a different thermal adhesive layer is used for a different semiconductor device thickness.

- 18. (withdrawn) The method of claim 1 wherein said at least two semiconductor devices comprise at least one high power density semiconductor device and at least one low power density device and a compliant thermal adhesive layer material is used on said lower power density semiconductor device and a rigid thermal adhesive layer material is used on said high power density device.
- (canceled) The method of claim 1 wherein said heat spreader is the package lid.
- (canceled) The method of claim 1 further comprising the step of attaching a heat sink on to said heat spreader.